

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW062124\  
 Data File : VW036232.D  
 Acq On : 22 Jun 2024 02:04  
 Operator : SY/MD  
 Sample : VSTDCCC025EC  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD025298

Quant Time: Jun 22 03:04:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 22 02:57:23 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/26/2024  
 Supervised By :Semsettin Yesilyurt 06/26/2024

| Compound                      | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| -----                         |                |      |            |          |       |          |
| Internal Standards            |                |      |            |          |       |          |
| 1) 1,4-Difluorobenzene        | 5.532          | 114  | 294380     | 25.000   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 8.783          | 117  | 300701     | 25.000   | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181         | 152  | 164549     | 25.000   | ug/L  | 0.00     |
|                               |                |      |            |          |       |          |
| System Monitoring Compounds   |                |      |            |          |       |          |
| 4) Vinyl Chloride-d3          | 1.272          | 65   | 96322      | 17.797   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 71.200%  |       |          |
| 7) Chloroethane-d5            | 1.526          | 69   | 89885      | 20.829   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 83.320%  |       |          |
| 11) 1,1-Dichloroethene-d2     | 2.050          | 65   | 43438      | 18.029   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 45 - 110 |      | Recovery = | 72.120%  |       |          |
| 21) 2-Butanone-d5             | 3.834          | 46   | 70478m     | 56.757   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 113.520% |       |          |
| 24) Chloroform-d              | 4.243          | 84   | 226110     | 24.160   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 40 - 150 |      | Recovery = | 96.640%  |       |          |
| 26) 1,2-Dichloroethane-d4     | 4.937          | 65   | 126939     | 25.869   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 70 - 130 |      | Recovery = | 103.480% |       |          |
| 32) Benzene-d6                | 4.953          | 84   | 414908     | 23.212   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 20 - 135 |      | Recovery = | 92.840%  |       |          |
| 36) 1,2-Dichloropropane-d6    | 5.986          | 67   | 134425     | 23.881   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 70 - 120 |      | Recovery = | 95.520%  |       |          |
| 41) Toluene-d8                | 7.240          | 98   | 375046     | 23.780   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 95.120%  |       |          |
| 43) trans-1,3-Dichloroprop... | 7.551          | 79   | 54902      | 23.788   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 135 |      | Recovery = | 95.160%  |       |          |
| 47) 2-Hexanone-d5             | 8.030          | 63   | 46656      | 61.178   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 122.360% |       |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149         | 84   | 121019     | 28.771   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 45 - 120 |      | Recovery = | 115.080% |       |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.558         | 152  | 141876     | 23.512   | ug/L  | 0.00     |
| Spiked Amount 25.000          | Range 75 - 120 |      | Recovery = | 94.040%  |       |          |
|                               |                |      |            |          |       |          |
| Target Compounds              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.101          | 85   | 107299     | 20.215   | ug/L  | 99       |
| 3) Chloromethane              | 1.208          | 50   | 131698     | 21.620   | ug/L  | 99       |
| 5) Vinyl chloride             | 1.275          | 62   | 149169     | 23.261   | ug/L  | 100      |
| 6) Bromomethane               | 1.481          | 94   | 107197     | 26.945   | ug/L  | 100      |
| 8) Chloroethane               | 1.542          | 64   | 102202     | 25.639   | ug/L  | 97       |
| 9) Trichlorofluoromethane     | 1.706          | 101  | 202388     | 25.413   | ug/L  | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.060          | 101  | 127443     | 25.214   | ug/L  | 98       |
| 12) 1,1-Dichloroethene        | 2.060          | 96   | 118269     | 25.089   | ug/L  | 88       |
| 13) Acetone                   | 2.163          | 43   | 57573      | 29.764   | ug/L  | 93       |
| 14) Carbon disulfide          | 2.230          | 76   | 383186     | 23.408   | ug/L  | 100      |
| 15) Methyl Acetate            | 2.388          | 43   | 65978      | 27.442   | ug/L  | 93       |
| 16) Methylene chloride        | 2.439          | 84   | 203264     | 30.515   | ug/L  | 99       |
| 17) trans-1,2-Dichloroethene  | 2.687          | 96   | 131561     | 26.272   | ug/L  | 97       |
| 18) Methyl tert-butyl Ether   | 2.700          | 73   | 364128     | 32.390   | ug/L  | 100      |
| 19) 1,1-Dichloroethane        | 3.105          | 63   | 260161     | 27.281   | ug/L  | 99       |
| 20) cis-1,2-Dichloroethene    | 3.809          | 96   | 141940     | 28.209   | ug/L  | 98       |
| 22) 2-Butanone                | 3.908          | 43   | 61529      | 37.488   | ug/L  | 85       |
| 23) Bromochloromethane        | 4.143          | 128  | 76434      | 30.283   | ug/L  | 97       |
| 25) Chloroform                | 4.269          | 83   | 275744     | 28.109   | ug/L  | 99       |

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Manual Integrations  
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Reviewed By :Mahesh Dadoda 06/26/2024  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 191791   | 31.316 | ug/L  | 99       |
| 29) Cyclohexane               | 4.574  | 56   | 164365   | 22.957 | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 4.507  | 97   | 210433   | 25.598 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 4.728  | 117  | 180912   | 25.085 | ug/L  | 100      |
| 33) Benzene                   | 5.005  | 78   | 550912   | 28.012 | ug/L  | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 165296   | 27.423 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.047  | 83   | 198568   | 23.822 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 154786   | 29.974 | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.429  | 83   | 203600   | 29.787 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 214710   | 27.799 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 180903   | 64.478 | ug/L  | 96       |
| 42) Toluene                   | 7.310  | 91   | 581381   | 28.930 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 193774   | 29.045 | ug/L  | 96       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 130303   | 30.496 | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.902  | 164  | 106804   | 24.228 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.079  | 43   | 119800   | 54.618 | ug/L  | 95       |
| 49) Dibromochloromethane      | 8.172  | 129  | 144501   | 30.900 | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 129619   | 31.615 | ug/L  | 100      |
| 51) Chlorobenzene             | 8.812  | 112  | 383884   | 28.036 | ug/L  | 98       |
| 52) Ethylbenzene              | 8.944  | 91   | 600357   | 27.923 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.069  | 106  | 229619   | 28.422 | ug/L  | 100      |
| 54) o-Xylene                  | 9.477  | 106  | 222066   | 29.148 | ug/L  | 96       |
| 55) Styrene                   | 9.493  | 104  | 418766   | 31.170 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 124530   | 32.548 | ug/L  | 99       |
| 59) Bromoform                 | 9.664  | 173  | 96539    | 31.110 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.863  | 105  | 572333   | 27.111 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 122978   | 31.600 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 421695   | 27.547 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 473960   | 28.736 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 305655   | 27.570 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 314678   | 27.499 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 295867   | 28.360 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 27160    | 31.210 | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.577 | 180  | 206656   | 24.920 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 162520   | 24.890 | ug/L  | 99       |
| 71) Naphthalene               | 13.435 | 128  | 378482   | 35.518 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.677 | 180  | 167440   | 28.101 | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

